

AMENDMENTS TO THE CLAIMS

Please amend the claims as follows.

1.-15. (Canceled)

16. (Currently Amended) The system of claim 26 ~~[[15]]~~, wherein the first sea-going vessel has a draught to more than 10 meters and the apparatus for taking up seawater from the body of seawater comprises a sea chest formed in the lower portion of the hull of the first sea-going vessel.

17. (Currently Amended) The system of claim 26 ~~[[15]]~~, wherein the apparatus for taking up seawater from the body of seawater comprises a water intake member extendible from the hull into the body of seawater, wherein the water intake is on the distal end of the water intake member ~~and the first depth is greater than ten meters.~~

18.-21. (Canceled)

22. (Currently Amended) The system of claim 26 ~~[[15]]~~, wherein the water intake is movable such that the water intake system can intake water from various depths to reduce the intake of plankton.

23. (Currently Amended) The system of claim 26 ~~[[15]]~~, wherein the first sea-going vessel comprises a sea chest formed in the lower portion of the hull of the first sea-going vessel and a water intake member extendible from the hull into the body of seawater, and the water intake system can utilize either the sea chest or the water intake member to intake seawater.

24.-25. (Canceled)

26. (Currently Amended) ~~The system of claim 15,~~ A system for desalinating seawater to yield desalinated water and a concentrate, the system comprising:

a first sea-going vessel comprising a hull and being positioned on the surface of a body of seawater;

a water desalination system installed on the first sea-going vessel, the water desalination system capable of removing salt from seawater;

a water intake system installed on the first sea-going vessel and comprising an apparatus for taking up seawater from the body of seawater, the apparatus comprising at least one water intake positioned in the body of seawater;

a mixing system for mixing the concentrate with seawater to yield a diluted concentrate, the mixing system being installed on the first sea-going vessel in communication with the water desalination system and comprising a space in which concentrate can be mixed with seawater to form the diluted concentrate, an inlet for introducing concentrate into the space, an inlet for introducing seawater into the space, and an outlet for discharging the diluted concentrate from the space; and

a concentrate discharge system for discharging the diluted concentrate from the first sea-going vessel, the concentrate discharge system being installed on the first sea-going vessel and comprising at least one discharge port.

wherein the mixing system is integrated with the concentrate discharge system, and comprises a concentrate discharge member extending from the hull into the body of seawater, the concentrate discharge member comprising (a) a conduit through which concentrate can flow from the water desalination system to the body of seawater and (b) an aspirator through which seawater from the body of seawater can be drawn into the concentrate discharge member by the Venturi effect to mix with concentrate in the conduit.

27. (Previously Presented) A system for desalinating seawater to yield desalinated water and a concentrate, the system comprising:

- a first sea-going vessel being positioned on the surface of a body of seawater;
- a water desalination system installed on the first sea-going vessel and capable of removing salt from seawater to yield desalinated water and concentrate;
- a water intake system installed on the first sea-going vessel in fluid communication with the water desalination system and comprising an apparatus for taking up seawater from the body of seawater, the apparatus positioned in the body of seawater at a first depth relative to the surface of the body of seawater; and
- a concentrate discharge system for discharging the concentrate from the first sea-going vessel, the concentrate discharge system being installed on the first sea-going vessel in fluid communication with the water desalination system and comprising at least one discharge member positionable in the body of seawater and comprising (a) a conduit through which concentrate can flow from the water desalination system to the body of seawater and (b) an aspirator through which seawater from the body of seawater can be drawn into the discharge member to mix with concentrate in the conduit.

28.-29. (Canceled)

30. (Currently Amended) The method of claim [[28]] 36, ~~wherein the~~ further comprising a step of diluting the concentrate with seawater ~~occurs~~ on the vessel.

31.-35. (Canceled)

36. (Previously Presented) A method of mixing seawater with a concentrate produced by a vessel-based desalination system positioned on the surface of a body of seawater, the method comprising the steps of:

introducing the concentrate into a concentrate discharge system installed on a first sea-going vessel and comprising at least one discharge member positionable in the body of seawater and comprising: (a) a conduit through which concentrate can flow from the water desalination system to the body of seawater and (b) an aspirator through which seawater from the body of seawater can be drawn into the discharge member to mix with concentrate in the conduit; and

introducing into the conduit and mixing therein the concentrate and seawater from the body of seawater.

37. (Currently Amended) The system of claim 26 ~~[[15]]~~, wherein the first sea-going vessel comprises at least one selected from the group consisting of (i) a means for regulating the salinity level of the concentrate to a level substantially equal to the salinity level of the seawater at the area where the concentrate is discharged and (ii) a means for regulating the temperature of the concentrate substantially equal to the temperature of the seawater at the area where the concentrate is discharged.

38. (Previously Presented) The system of claim 37, wherein the first sea-going vessel comprises both (i) the means for regulating the salinity level of the concentrate to a level substantially equal to the salinity level of the seawater at the area where the concentrate is discharged and (ii) the means for regulating the temperature of the concentrate substantially equal to the temperature of the seawater at the area where the concentrate is discharged.

39. (Currently Amended) The method of claim 30 [[28]], wherein the diluted concentrate has a salinity level substantially equal to the salinity level of the seawater at the area where the concentrate is discharged.
40. (Currently Amended) The method of claim 30 [[28]], wherein the diluted concentrate has a temperature substantially equal to the temperature of the seawater at the area where the concentrate is discharged.
41. (Currently Amended) The method of claim 30 [[28]], wherein the diluted concentrate has a salinity level substantially equal to the salinity level of the body of seawater at the area where the concentrate is discharged and the diluted concentrate has a temperature substantially equal to the temperature of the seawater at the area where the concentrate is discharged.
42. (New) The system of claim 27, wherein the first sea-going vessel has a draught to more than 10 meters and the apparatus for taking up seawater from the body of seawater comprises a sea chest formed in the lower portion of the hull of the first sea-going vessel.
43. (New) The system of claim 27, wherein the apparatus for taking up seawater from the body of seawater comprises a water intake member extendible from the hull into the body of seawater, wherein the water intake is on the distal end of the water intake member.
44. (New) The system of claim 27, wherein the water intake is movable such that the water intake system can intake water from various depths to reduce the intake of plankton.
45. (New) The system of claim 27, wherein the first sea-going vessel comprises a sea chest formed in the lower portion of the hull of the first sea-going vessel and a water intake member extendible from the hull into the body of seawater, and the water intake system can utilize either the sea chest or the water intake member to intake seawater.

46. (New) The system of claim 27, wherein the first sea-going vessel comprises at least one selected from the group consisting of (i) a means for regulating the salinity level of the concentrate to a level substantially equal to the salinity level of the seawater at the area where the concentrate is discharged and (ii) a means for regulating the temperature of the concentrate substantially equal to the temperature of the seawater at the area where the concentrate is discharged.
47. (New) The system of claim 46, wherein the first sea-going vessel comprises both (i) the means for regulating the salinity level of the concentrate to a level substantially equal to the salinity level of the seawater at the area where the concentrate is discharged and (ii) the means for regulating the temperature of the concentrate substantially equal to the temperature of the seawater at the area where the concentrate is discharged.